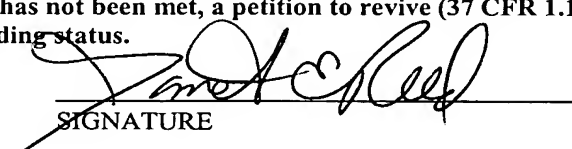


FORM PTO-1390 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY DOCKET NUMBER RUCC-0064
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (if known see 37 CFR 1.5) <div style="font-size: 1.2em; font-weight: bold;">10/532464</div>
INTERNATIONAL APPLICATION NO. PCT/US03/34011	INTERNATIONAL FILING DATE 23 October 2003 (23.10.2003)	PRIORITY DATE CLAIMED 23 October 2002 (23.10.2002)
TITLE OF INVENTION PRODUCTION OF VANILLIN IN MICROBIAL CELLS		
APPLICANT(S) FOR DO/EO/US Daphna HAVKIN-FRENKEL, Gerben ZYLSTRA, Chaim FRENKEL, and Faith BELANGER		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<div style="display: flex;"> <div style="width: 5%; text-align: right;">1.</div> <div style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></div> <div>This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">2.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">3.</div> <div style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></div> <div>This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9), and (21) indicated below.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">4.</div> <div style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></div> <div>The US has been elected (Article 31).</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">5.</div> <div style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></div> <div> A copy of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). </div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">6.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). </div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">7.</div> <div style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></div> <div> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. </div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">8.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">9.</div> <div style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></div> <div>An oath or declaration of the inventor(s) 35 U.S.C. 371(c)(4). (unexecuted)</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">10.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</div> </div>		
Items 11. to 20. below concern other document(s) or information included:		
<div style="display: flex;"> <div style="width: 5%; text-align: right;">11.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">12.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">13.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>A preliminary amendment.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">14.</div> <div style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></div> <div>An Application Data Sheet under 37 CFR 1.76.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">15.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>A substitute specification.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">16.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>A power of attorney and/or change of address letter.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">17.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.182-1.825.</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">18.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>A second copy of the published international application under 35 U.S.C. 154(d)(4).</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">19.</div> <div style="width: 5%; text-align: center;"><input type="checkbox"/></div> <div>A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</div> </div> <div style="display: flex;"> <div style="width: 5%; text-align: right;">20.</div> <div style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></div> <div> Other items or information: a copy of the International Application as published by WIPO under No. WO 2004/036979, including the search report; check; and return postcard. </div> </div>		
<div style="font-size: 1.2em; font-weight: bold;">EV325726018US</div>		EXPRESS MAIL Mailing Label No. EV 325726018 US Date of Deposit: April 22, 2005

U.S. APPLICATION NO. 107532464		INTERNATIONAL APPLICATION NO. PCT/US03/34011		ATTORNEY DOCKET NUMBER RUCC-0064	
The following fees are submitted:					
21. <input checked="" type="checkbox"/> Basic national fee		\$300.00	\$300.00		
22. <input checked="" type="checkbox"/> Examination fee			\$		
If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)		\$100.00	\$200.00		
All other situations		\$200.00			
23. <input checked="" type="checkbox"/> Search fee			\$100.00		
Search fee (37 CFR 1.445(a)(2)) has been paid on the International application to the USPTO as an International Searching Authority		\$100.00			
International Search Report prepared and provided to the Office		\$400.00			
All other situations		\$500.00			
TOTAL of 21, 22 and 23 =			\$600.00		
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
31 - 100 =	0/50 =		X \$250.00	\$ 0	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).			\$		
Claims	Number Filed	Number Extra	Rate		
Total claims	40 - 20 =	20	X \$50.00	\$1,000.00	
Independent Claims	3 - 3 =	0	X \$200.00	\$ 0	
Multiple dependent claims(s) (if applicable)			+ \$360.00	\$	
TOTAL OF ABOVE CALCULATIONS =			\$1,600.00		
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.			\$ 800.00		
SUBTOTAL =			\$ 800.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).			\$		
TOTAL NATIONAL FEE =			\$ 800.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$		
TOTAL FEES ENCLOSED =			\$ 800.00		
			Amount to be:	\$	
			refunded	\$	
			charged	\$	
a. <input checked="" type="checkbox"/> A check in the amount of \$800.00 to cover the above fee is enclosed.					
b. <input type="checkbox"/> Please charge my Deposit Account No. 23-3050 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-3050. A duplicate copy of this sheet is enclosed.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:					
John W. Caldwell Woodcock Washburn LLP One Liberty Place - 46th Floor Philadelphia, PA 19103 (215) 568-3100			 SIGNATURE Janet E. Reed NAME 36,252 REGISTRATION NUMBER		